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Bell  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Michael Barrow

Application No: 09/274,430

Filed: March 22, 1999

For: PERIMETER MATRIX BALL  
GRID ARRAY CIRCUIT  
PACKAGE WITH A  
POPULATED CENTER

Examiner:

Art Unit: 2814 5

Assistant Commissioner for Patents  
Washington, D.C. 20231

SUPPLEMENTARY PRELIMINARY AMENDMENT

Sir:

Applicant would like to have entered this Supplementary Preliminary  
Amendment prior to Examination of the above referenced case:

IN THE CLAIMS

Please add claims 45-51 as follows:

45. (New) A ball grid array package, comprising:
- a substrate which has a top surface and an exposed external bottom  
surface, said external bottom surface having plurality of contact pads, said  
plurality of contact pads consisting only of:

45/